

CLAIMS

1. A self-cleaning centrifuge for clarifying contaminated liquids comprising, in part, a rotor assembly supported for rotation about an axis, said rotor assembly having nested first and second sets of a plurality of concentric cylinders and with one of said sets being rotatably supported by the other of said sets, and said cylinders having waste matter collection surfaces.
2. The centrifuge of claim 1 further including means for rotating one of said sets of concentric cylinders about said axis.
3. The centrifuge of claim 2 further including means for supplying contaminated liquid to said rotor assembly.
4. The centrifuge of claim 3 further including means for collecting clarified liquid.
5. The centrifuge of claim 4 further including means for selectively braking the rotation of one of said sets of concentric cylinders about said axis.
6. The centrifuge of claim 5 further including means for collecting waste matter from said collection surfaces.
7. The centrifuge of claim 1 further including bowl means enclosing said rotor assembly, said bowl means being integrally connected to one of said sets of concentric cylinders, and said bowl means having cover means and a bottom positioned opening adapted to facilitate the passage therethrough of accumulated waste matter.
8. The centrifuge of claim 7 further including means for rotating said bowl means and said one of said sets of concentric cylinders about said axis.
9. The centrifuge of claim 8 further including housing means for supporting said rotor assembly and said bowl means.
10. The centrifuge of claim 9 further including means for collecting clarified liquid.

11. The centrifuge of claim 10 further including means for selectively braking the rotation of one of said sets of concentric cylinders.

12. The centrifuge of claim 7 further including liquid passageway means in said cover means.

13. The centrifuge of claim 12 wherein said liquid passageway means includes interconnected radially and axially extending liquid passageway means.